

ABSTRACT OF THE DISCLOSURE

A data transmission system which removes ingress noise of a LAN using CATV network system. A data transmission device 60 to which a superior cable modem 61 and an inferior cable modem 62 are connected in series is installed at an input of a network 50 in a multiple dwelling house.

Upstream high-frequency modulation signal is once converted by the inferior cable modem 62 into Ethernet base band signal, then again modulated by the superior cable modem 61 and transferred. Because ingress noise is analogue signal, it is removed by this conversion. As a result, data transmission performance is improved and a LAN can be installed even in the network 50 in a multiple dwelling house with a lot of ingress noise.